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**Kadota**

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(54) **SURFACE ACOUSTIC WAVE DEVICE AND COMMUNICATION DEVICE**

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(57) **ABSTRACT**

A surface acoustic wave device including a LiTaO<sub>3</sub> substrate, and an interdigital transducer is provided on the LiTaO<sub>3</sub> substrate. The interdigital transducer includes as a major component at least one of Au, Ag, Ta, Mo, Cu, Ni, Cr, Zn, and W, and the interdigital transducer has a normalized film thickness  $H/\lambda$  of approximately 0.05 or less so as to excite a shear horizontal wave.

**20 Claims, 10 Drawing Sheets**

